CW#121: Parallel Lines

Geometry

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

Review:

|  |
| --- |
| 1. Find the equation of the straight line that has slope m = 3 and passes through the point (1, 6). 2. Find the equation of a line that passes through the points (2 ,7) and (5,10).      1. Convert 3x + 5y = 15, from standard form to    slope intercept form.   1. Solve for the x and y intercept.   b. Graph the line. |
| Parallel Lines:  What do we already know? |

|  |  |
| --- | --- |
| 1. Which equation would be parallel to   y = 5x - 4?  A) y = -5x + 1  B) y = 1/7x  C) y = -1/7x + 1  D) y = 5x | 1. Which equation would be parallel to   y = ¼ x +1?  A) y = 4x + 2  B) y = -4x  C) y = - ¼ x  D) y = ¼ x + 10 |
| 1. What is the slope of a line that is parallel to:   6x + 2y = 12?  A) m = -3  B) m = -1/3  C) m = 3  D) m = 2 | 1. Which line is parallel to:   5x + 3y = 15?  A)  B)  C)  D) |
| 1. Write the equation of a line below that that will be parallel to: y = 2/3x + 4  * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  1. http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.pngProve that the line you created is parallel by graphing both below. | 1. Write the equation of a line below that that will be parallel to: 3x - 5y = 15  * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  1. Prove that the line you created is parallel by graphing both lines below.   http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png |

|  |  |
| --- | --- |
| Write the equation of the line that is parallel to the given line and passes through the given point. Your final answer should be in slope-intercept form. | |
| 9. y = 2x + 5; (-1, -1)  http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png | http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png10. 9x + 3y = 8; (-1, -4) |
| 11. y = -4x + 2; (-2, 5)  http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png | http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png12. y = x + 5; (3, 2) |
| http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png13. 3x – y = 5; (0, -7) | 14. y = 4x; (4, 4)  http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png |
| http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png15. A parallelogram has three sides at , , and . Give a possible equation for the fourth side. Explain. | http://domathtogether.com/wp-content/uploads/2012/10/coordinate-plane1.png16. A quadrilateral has vertices at A(-2,-2), B(2,0), C(0,2), and D(0,-4). Is this a parallelogram? Why or why not? |

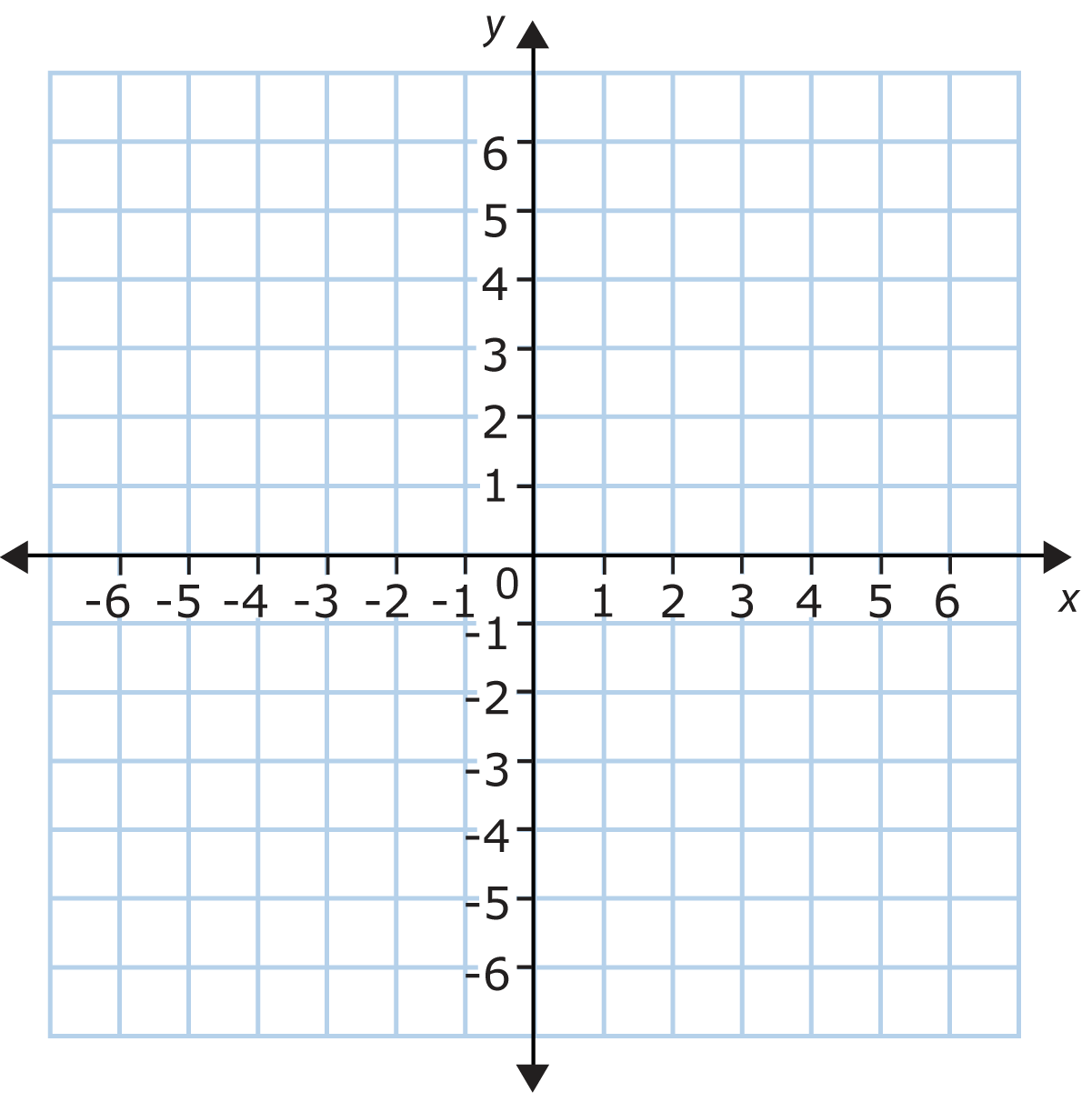
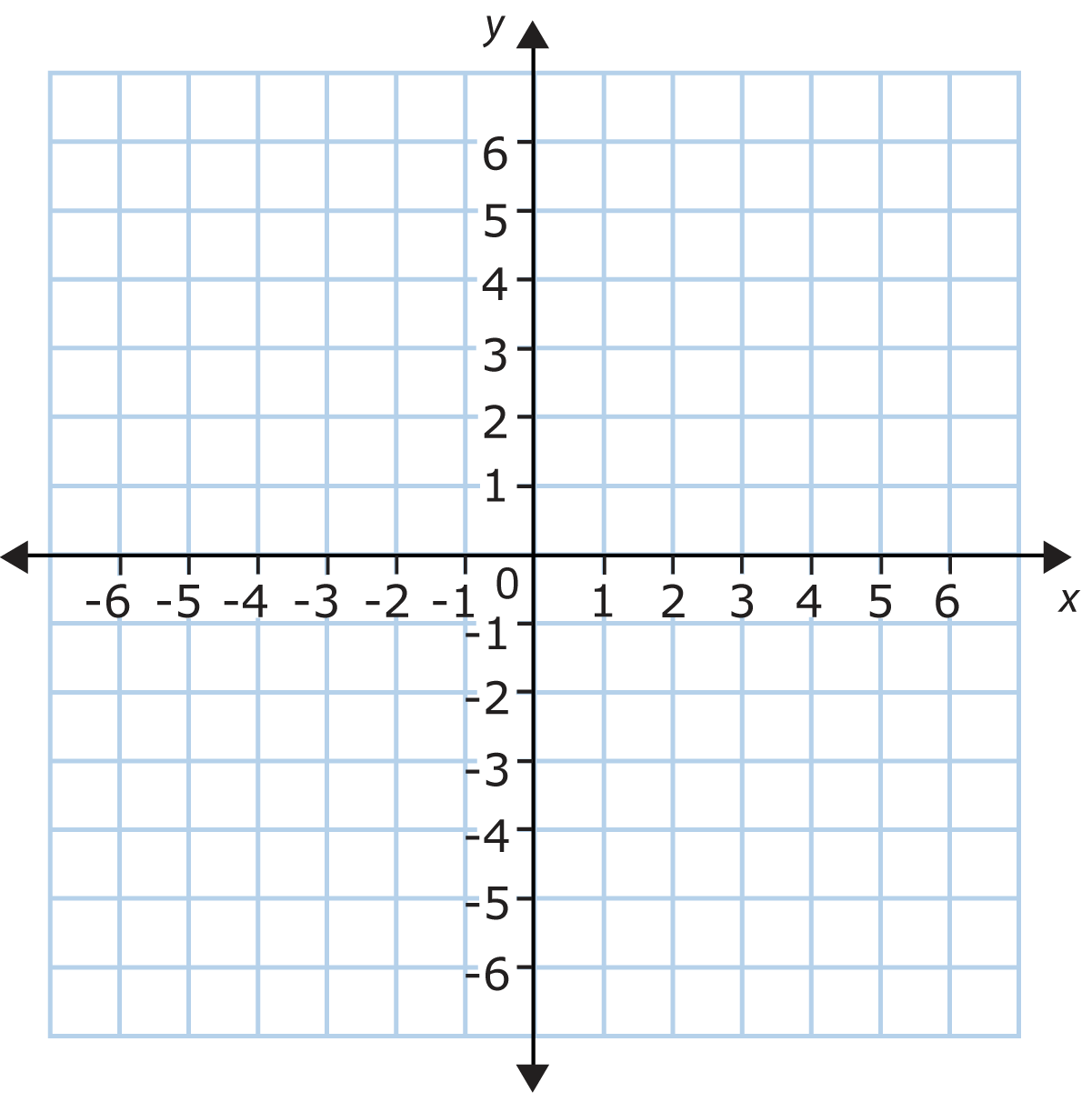
HW#121: Parallel Lines

Geometry

Due: Tuesday, May 10th, 2016

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

Failure to show work will result in a LaSalle.



|  |  |
| --- | --- |
| Write the equation of the line that is perpendicular to the given line and passes through the given point. Be sure that your final answer is in slope-intercept form. | |
| 1. y = x + 5; (-1, -1) | 1. y = -3x + 1; (6, 4) |
| Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-05-08 at 10.59.23 PM.png | |

We will be using the following problem tomorrow in class. Please be sure to follow the color directions!



